

CLAIMS

1. Machine for presenting a tire with the axis horizontal, allowing access to the inside of the tire, comprising:

5 a frame bearing an upright on which a support for the tire is mounted for vertical translation, the support ensuring on its own the holding and rotation of the tire about an axis of the tire by being in contact with the tire solely via a toric section of the tire, the toric section being arranged substantially vertically when the tire is installed on the machine.

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2. Presentation machine according to claim 1, wherein the support for the tire has first means for supporting the tire, second means for holding and spreading the beads of the tire and third means for supporting and rotating the latter about its axis, these three means forming a triangulation system
15 guaranteeing the grasping of the tire and its stable holding in the working position of the machine.

3. Machine according to claim 2, wherein the first means for supporting the tire comprises at least one freely rotating roller, the third supporting means
20 comprises a motorised roller, the axes of these rollers being mutually parallel and situated in horizontal planes, and the second means comprises arms with axes perpendicular to those of the rollers, the projection of the free ends of the arms, of the center of the motorised roller and of the center of the free roller onto a vertical plane perpendicular to the axis of the rollers forming a triangle.

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4. Machine according to claim 2, wherein the second means comprises arms with axes perpendicular to the upright of the frame, the arms being laterally translatable and each free end of which is displaceable transversely relative to the frame.

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5. Machine according to Claim 4, wherein the two arms are synchronised so as to come closer to or move away from each other simultaneously and symmetrically during lateral translation and during transverse movement.

5 6. Machine according to Claim 3, wherein the arms possess respectively a free end bearing a system with three fingers for gripping and spreading the beads of the tire to be presented.

10 7. Machine according to Claim 6, wherein each system of fingers includes two fingers for spreading the tire beads, extending substantially in the transverse direction, and a third finger for positioning the system of fingers relative to the tire, arranged vertically between the other two and extending in the lateral direction.

15 8. Machine according to claim 2, wherein the first means is arranged vertically above the third means and transversely nearer to the upright than the third means, free ends of the second means being vertically arranged between the first means and third means.

20 9. Machine according to claim 2, wherein the third means is arranged vertically above the first means and transversely nearer to the upright than the first means, free ends of the second means being vertically arranged between the first means and third means.

25 10. Machine according to claim 3, wherein the first means comprises two freely rotating rollers, mounted respectively on one of the ends of a lever itself mounted so as to rotate freely on the support, the respective axes of rotation of the rollers and of the lever being mutually parallel.

30 11. Use of the machine according to claim 1, for inspecting the state of the inside and/or the outside of a tire.

12. Use of the machine according to claim 1, for buffing the inside and/or the outside of a tire.

13. Use of the machine according to claim 1, for repairing the inside
5 and/or the outside of a tire.

14. Use of the machine according to claim 1, for applying semifinished products or coverings to the inside and/or the outside of a tire.